

FIG. 2



DEPT TABLE 300

DNO	NAME	SIZE
1	Finance	100
2	Marketing	200
3	Sales	50
...		

EMP TABLE 310

DNO	ENO	NAME	AGE
1	1	J. Skolem	50
2	2	L. Hubbard	33
...			

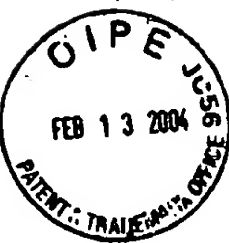
Default XML View of the DEPT Table 320

```
<DEPT>
  <ROW>
    <DNO> 1 </DNO> <NAME> Finance </NAME> <SIZE> 100 </SIZE>
  </ROW>
  <ROW>
    <DNO> 2 </DNO> <NAME> Marketing </NAME> <SIZE> 200 </SIZE>
  </ROW>
  <ROW>
    <DNO> 3 </DNO> <NAME> Sales </NAME> <SIZE> 50 </SIZE>
  </ROW>
  ...
</DEPT>
```

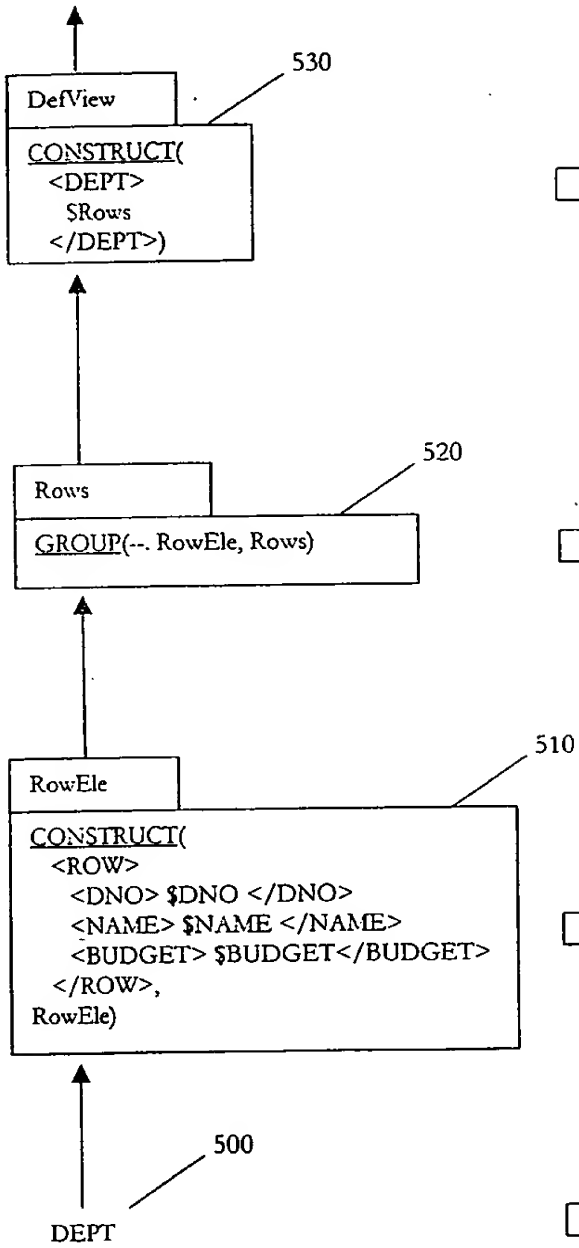
Default XML View of the EMP Table 330

```
<EMP>
  <ROW>
    <DNO> 1 </DNO> <ENO> 1 </ENO> <NAME> J. Skolem </NAME> <AGE> 50 </AGE>
  </ROW>
  <ROW>
    <DNO> 2 </DNO> <ENO> 2 </ENO> <NAME> L. Hubbard </NAME> <AGE> 33 </AGE>
  </ROW>
  ...
</EMP>
```

FIG. 3



Intermediate Representation for the
Default View of the DEPT Table



Output of Each Operation

<DEPT>
 <ROW>
 <DNO> 1 </DNO> <NAME> Finance </NAME>
 <SIZE> 100 </SIZE>
 </ROW>
 <ROW>
 <DNO> 2 </DNO> <NAME> Marketing </NAME>
 <SIZE> 200 </SIZE>
 </ROW>
 ...
</DEPT>

<ROW>
 <DNO> 1 </DNO> <NAME> Finance </NAME>
 <SIZE> 100 </SIZE>
</ROW>
<ROW>
 <DNO> 2 </DNO> <NAME> Marketing </NAME>
 <SIZE> 200 </SIZE>
</ROW>
 ...

<ROW>
 <DNO> 1 </DNO> <NAME> Finance </NAME>
 <SIZE> 100 </SIZE>
</ROW>

<ROW>
 <DNO> 2 </DNO> <NAME> Marketing </NAME>
 <SIZE> 200 </SIZE>
</ROW>

 ...
 ...

1 Finance 100

2 Marketing 200

 ...

FIG. 5